

110 Fifth Street Suite 400 SALEM, NEW JERSEY 08079 856-935-7510 856-358-3857 FAX 856-935-8483

# APPLICATION FOR PERMIT TO CONSTRUCT/ALTER/REPAIR AN INDIVIDUAL SUBSURFACE SEWAGE DISPOSAL SYSTEM

#### Form 1—General Information

Municipality
1. Type of Permit Needed (Check and Fill-in applicable categories):
a. New Construction
b. Alteration/ No Expansion or Change in Use
c. Alteration/Expansion or Change in Use
d. Alteration/Malfunctioning System
e. Repair (in-kind replacement)/ Malfunctioning system
f. Repair (in-kind replacement) System is not malfunctioning
g. Deviation from Standards
h. New system installed (existing structure)
2. Location of Project:
Municipality Block No Lot No
Street Address Zip
3. Name of Applicant (print):
4. Applicant's Present Address:
5. Applicant's Phone Number:
6. Type Of Facility:
_ Residential
_ Commercial/Institutional
Specify Type of Establishment:
7. Type of Wastes to be Discharged:
_ Sanitary Sewage
_ Industrial Wastes
_ Other—Specify Type

8. If d. or e. in 1. above are checked, indicate the type of malfunction and its cause (check all that
apply):
Contamination of nearby wells or surface water bodies by sanitary sewage or effluent
Ponding or breakout of sanitary sewage or effluent onto the surface of the ground
Seepage of sanitary sewage or effluent into portions of building below ground
Back-up of sanitary sewage into the building served, which is not caused by a physical
blockage of the internal plumbing
Any manner of leakage observed from components that are not designed to emit sanitary
sewage or effluent.
Direct discharges to ground water (no zone of treatment)
Describe the cause of the malfunction:
Describe the cause of the manufaction.
9. Please expand on Question #1, above, by checking if any of the following apply):
A privy, outhouse, latrine or pit toilet is present, a system must be installed,
* *
A system must be upgraded as part of a real property transfer,
A cesspool has been identified during a real property transfer and a conforming system must
be installed,
A malfunctioning cesspool has been identified and a conforming system must be installed.
10 Odb - A
10. Other Approvals/Certification/Waivers/Exemptions (Attach to Application):
_ Pinelands Commission
_ Highlands Water Protection and Planning Act
_ U.S. Army Corps of Engineers
_ NJDEP—Bureau of Flood Plain Management
_ Other—Specify:
I hereby certify that the information furnished on Form 1 of this application is true. I am aware that
false swearing is a crime in this State and subject to prosecution.
Signature of ApplicantDate
FOR AGENCY USE ONLY
_ Application Denied—Reason for Denial/Citation of Rules Violated:
Application Approved PERMIT NUMBER EXPIRATION DATE
_ Application Approved Subject to Approval by NJDEP
_ ripplication ripplicate to ripplication of rander
Date of Action Signature of Authorized Agent
Digitation of Figure 11 September 11 Septemb
Name and Title
Munic and Tide
COUNTY/MUNICIPALITY

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Form 2a—General Site Evaluation Data BlockLot
1. Name of Site Evaluator (print):
2. Business Address of Site Evaluator:
3. Business Phone Number of Site Evaluator:
4. Special Site Limitations Identified (Check appropriate Categories):_ Flood Plains _ Bedrock Outcrops _ Wetlands_ Excessively Stony _ Disturbed Ground _ Sink Holes_ Sand Dunes _ Steep Slopes _ Other—Specify
5. Soil Logs—Enter on Form 2b—Use one sheet for each soil log.
6. Considerations Relating to Disturbed Ground:
a) Type of Disturbance (Check appropriate categories): _ Filled Area _ Excavated Area _ Re-graded Area _ Subsurface Drains _ Other—Specify b) Existing Ground Surface Elevation Relative to Ground Surface Method of Identification c) Suitability of Disturbed Ground_ Unsuitable: Objects Subject to Disintegration or Change in Volume _ Excessively Coarse_ Proctor Test performed_% Standard Proctor Density =
7. Hydraulic Head Test:
a) Hydraulically Restrictive Horizon: Depth Top to Bottom b) Piezometer A: Depth to Bottom _ Depth of Water Level (24 hrs) _ c) Piezometer B: Depth to Bottom _ Depth of Water Level (24 hrs) _ d) Witnessed by
Signature Date
8. Attachments (Check items included): _ Site Plan_ Key Map Showing Location of Site On U.S.G.S. Quadrangle or Other Accurate Map _ Key Map Showing Location of Site on U.S.D.A. Soil Survey Map_ Other— Specify
I hereby certify that the information furnished on Form 2a of this application (and the attachments thereto) is true and accurate. I am aware that falsification of data is a violation of the Water Pollution Control Act (N.J.S.A. 58:10A-1 et seq.) and is subject to penalties as prescribed in N.J.A.C. 7:14-8.
Signature of Soil Evaluator
SIGNATURE OF PROTESSIONAL ENGINEER LICENSE #

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Form 2b—Soil Log and Interpretation	Block	Lot
1. Log Number Method (Check One): _ Profile Pit _	Boring	
2. Soil Log Depth (inches)		
Top-		
Bottom		
Munsel Color Name and Symbol; Estimated Textural Cl	lass: Estimated Volum	ne % Coarse Fragment,
If Present; Structure; Moist or Dry Consistence; Mottlin		
3. Ground Water Observations:		
_ Seepage—Indicate Depth		
_ Pit/Boring Flooded—Depth after		Hours
4. Soil Limiting Zones (Check Appropriate Categories):		
_ Fractured Rock Substratum—Depth to Top		
_ Massive Rock Substratum—Depth to Top		
_ Excessively Coarse Horizon—Depth Top to Bottom _		
_ Excessively Coarse Substratum—Depth to Top		
_ Hydraulically Restrictive Horizon—Depth Top to Bot		
_ Hydraulically Restrictive Substratum—Depth to Top _		
_ Perched Zone of Saturation—Depth Top to Bottom		
_ Regional Zone of Saturation—Depth to Top		
5. Soil Suitability Classification:		
I hereby certify that the information furnished on Form 2 aware that falsification of data is a violation of the Wate seq.) and is subject to penalties as prescribed in N.J.A.C.	er Pollution Control Ac	
Signature of Site Evaluator		Date
Signature of Professional Engineer	L	icense #
COUNTY/MUNICIPALITY		

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Form 3a. Soil I	Permeability Da	ita Bloc	k	Lot
	ach test and a letter for sheet for each separate		ow test data and calcula	ations on Form 3b, 3c, 3d
1. Summary of Data-	—Enter data for each	test replicate on a sep	arate line.	
Type of Test	Test (number)	Replicate (letter)	Depth (inches)	Result*
rating give soil permeatest report result as pool 2. Design Permeability _ Average of Test Rep_ Single Replicate _ Slowest of Replicate	ability class number. For sitive if basin drains constitute if basin drains constitute if basin Rate: Specificates		rt result in minutes per urs after second filing, r	For Soil permeability clasinch. For basin flooding negative otherwise.
3.		Tast Ni		
Type of Limiting Zor	ne identified	Test Nu	ımber	
_ Form 3c—Soil Perm _ Form 3d—Percolatio _ Form 3e—Pit-Bailin _ Form 3f—Piezometo _ Form 3g—Basin Flot I hereby certify that the thereto) is true and acc Control Act (N.J.S.A.	meameter Test Data—neability Class Rating Ton Test Data—Number of Test Data—Number Test Data—Number Doding Test Data—Number or	Test Data—Number of Strof Sheets of Sheets of Sheets of Sheets mber of Sheets d on Form 3a of this application of data is a sis subject to penalties a	plication (and the attact a violation of the Water s prescribed in N.J.A.C	Pollution C. 7:14-8.
Signature of Soil Eval	uator		Date	
Signature of Professio	nal Engineer	I	icense #	·

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Form 3b. Tube Permeameter 7.  1. Test Number Replicate (Let	Test Data ter) Date Collected	
2. Material Tested: _ Fill _ Test in Nat	ive Soil—Indicate Depth	
3. Type of Sample: _ Undisturbed _ Di	isturbed	
4. Sample Dimensions: Inside Radius of	of Sample Tube, R, in cm Length of	Sample, L, in inches
5. Bulk Density Determination (Disturbance Sample Weight (Wt. Tube Containing Sample Volume (L x 2.54cm./inch x 3. Bulk Density (Sample Wt. /Sample Vo.	Sample—Wt. of Empty Tube), grams14R2), cc	
6. Standpipe Used: _ No _ Yes —India	cate Internal Radius, cm	
7. Height of Water Level Above Rim of the End of Each Test Interval, H2	of Test Basin, in inches:At the Beginning	g of Each Test Interval, H1At
8. Rate of Water Level Drop (Add add	itional lines if needed):	
Time, Start of Test	Time, End of Test,	Length of Test Interval,
Interval, t1	Interval t2	t, minutes
9. Calculation of Permeability: K, (in/hr) = 60 min/hr x r2/R2 x L(in)/	Γ(min) x In (H1/H2)= 60 min/hr x _ / _	x _ / _x in (_ / _) = _
<ul><li>10. Defects in the Sample (Check appr</li><li>None _ Cracks _ Worm Channels</li><li>Root Channels _ Soil/Tube Contact</li></ul>	opriate items):	
_ Large Gravel _ Large Roots		
_ Dry Soil _ Smearing _ Compaction		
_ Other—Specify		
11. I hereby certify that the information	n furnished on Form 3b of this application ation of the Water Pollution Control Accribed in N.J.A.C. 7:14-8.	
Signature of Frotessional Engineer	Lice	IISC #

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#### Form 3c. Soil Permeability Class Rating Data

1. Test Number Replicate (Letter)	
2. Sample Depth_Soil Pit/Boring Number_Date Collected	
3. Coarse Fragment Content:  Total Weight of Sample, W.T., grams  Weight of Material Retained on 2mm sieve, W.C.F., grams  Wt. % Coarse Fragment (W.C.F./W.T. x 100):	
4. Oven Dry Weight (24 hrs., 105°C) of 40 Gram Air Dry Sample, grams, Wt	·
5. Hydrometer Calibration, Rc	
6. Hydrometer calibration temperature (°F)	_
7. Hydrometer Reading—40 seconds, grams, R1 Temperature of Suspension, °F	
8. Corrected Hydrometer Reading, grams, R1'	
9. Hydrometer Reading—2 hours, grams, R2 Temperature of Suspension, °F	
10 Corrected Hydrometer Reading, grams, R2'	
11. % sand = (Wt R1')/Wt. x 100 = ()/ _ x 100 =	
12. % clay = R2'/Wt. x 100 = _/_ x 100 =	
13. Sieve Analysis: a. Oven Dry Wt. (2 hrs., 105°C) Total Sand Fraction (Soil Retained in 0.047 hb. Wt. of Fine Plus Very Fine Sand Fraction (Sand Passing 0.25 mm Sieve), gc. % Fine Plus Very Fine Sand (b/a)	
14. Soil Morphology (Natural Soil Samples Only): Structure of Soil Horizon Tested Consistence of Soil Horizon Tested: Dry Moist	
15. Soil Permeability Class Rating (Based upon average textural analysis of the replicate samples) I hereby certify that the information furnished on Form 3c of this application aware that falsification of data is a violation of the Water Pollution Control A seq) and is subject to penalties as prescribed in N.J.A.C. 7:14-8. Signature of Site Evaluator	is true and accurate. I am
Signature of Professional Engineer	License #

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#### Form 3d. Percolation Test Data

1. Test Number R	eplicate (Letter)	Date Tested_		
2. Depth				
3. Pre-soak: Sandy Textured Soil Only, S Drain After Second Filling, Mi		•		
Four Hour Pre-soak Comple Test Hole Drained Within 1 Test Hole Did Not Drain W	6 to 24 Hours After Pre-s			
4. Rate of Fall Data: a. Time Interval Selected, Minu b. Record the Drop in Water Le Lines Below:		terval to the Ne	arest 1/10th-Inch On the	
Depth of Water, Start of Interval (inches)	Depth of Water, Endof Interval (inches)	d	Drop in Water Level(Inches)	
5. Percolation Rate: a. Time, minutes, Required for b. Percolation Rate = a/6 =/6	•	Level		
I hereby certify that the information aware that falsification of data is seq.) and is subject to penalties	is a violation of the Water	Pollution Cont		
Signature of Site Evaluator			Date	
Signature of Professional Engir	neer		License #	

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#### Form 3g. Basin Flooding Test Data

6. Result of First Basin Flooding: Basin Drained within 24 Hrs.—Indicate Time Basin Not Drained within 24 Hrs.
5. Time of First Basin Flooding Volume of Water Added, Gal
Not Rippable by Machine, Explosives Used
Hardness of Rock: Rippable with Hand Tools Not Rippable with Hand Tools, Rippable by Machine
Vertical (Parallel to Sides of Pit) Or Nearly So
Inclined
Horizontal (Parallel to Pit Bottom) Or Nearly So
Orientation of Fractures:
Tight (Closed)
Open (Wide), Infilled with Fines—Width of Openings, mm _
Open (Wide), Clean—Width of Openings, mm
Type of Fractures (Check Appropriate Category):
Average Fracture Spacing
Name of Formation
Type of Rock
4. Description of Rock Substratum Within Test Zone:
2. Depth of Pit, it  3. Area of Pit, ft2
2. Depth of Pit, ft

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#### Form 4. General Design Data

1. Volume of Sanitary Sewage, gal Residential: No. of Dwelling Units _ Total No. of Bedrooms _ Ejector Pump YES NO Garbage Grinder YES NO Expansion Attic YES NO _ Commercial/Institutional—Indicate type of establishment and show method of calculation. If estimate is based on water meter data, indicate source of data, frequency of readings, average daily flow, and maximum recorded daily reading
2. Alterations or Repairs a) Reason for Alteration or Repair (Check appropriate categories): _ Expansion or Change in Use _ Upgrade Existing Facilities _ Correct Malfunctioning System _ Other—Specify b) Describe Nature of Alteration or Repairs:
3. System Components: a) Grease Trap Capacity, gals Show Calculation Used: b) Septic Tank Capacities, gals: _ First (Single) Compartment Second Compartment Third Compartment _ c) Effluent Distribution Method: _ Gravity Flow _ Gravity Dosing _ Pressure Dosing Dosing Device: _ Pump _ Siphon d) Dosing Tank Capacities, gals: Total Capacity _ Dose Volume _ Reserve Capacity e) Laterals: Number _ Total Length _ Pipe Size _ Spacing _ f) Connecting Pipe: Size Length g) Manifold: Size Length h) Disposal Field: Type of Installation
Design Permeability (Percolation Rate) Trenches: Width Total Length Bed: Area _ i) Seepage Pits: Design Percolation Rate Number of Pits Total Percolating Area Provided _
4. Attachments (Check items included): _ General Plan of System Showing Location of All System Components _ X-Sections of Each System Component Including Grease Trap, Septic Tank, Dosing Tank, Disposal Field, Seepage Pits and Interceptor Drains _ Pump Performance Curve _ Other—Specify
5. I hereby certify that the information furnished on Form 4 of this application (and attachments thereto) is true and accurate. I am aware that falsification of data is a violation of the Water Pollution Control Act (N.J.S.A. 58:10A-1 et seq.) and is subject to penalties as prescribed in N.J.A.C. 7:14-8.

Signature of Professional Engineer \_\_\_\_\_\_ Date \_\_\_\_\_

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#### Form 5. Design of Pressure Dosing System

1. Configuration of Distribution Net	work:		
Type of Manifold: Distribution Laterals: Number	End		_ Central
Distribution Laterals: Number	Length, ft	Spacing, ft _	
Hole Diameter, ins Hole Sp	acing, ins		
Diameter of Laterals, ins			
2. Lateral Discharge Rate:			
Design Pressure Head at Supply End			
Hole Discharge Rate, Q, gpm			
Number of Holes per Lateral, n			
Lateral Discharge Rate, (Q x n) gpm	1		
3. Manifold Length, ft	Manifold l	Diameter, ins	
4. System Discharge Rate, gpm			
5. Dose Volume:			
Design Volume of Sewage, gal/day			
Design Permeability, in/hr _ or Perc	olation Rate, min/in _		
Internal Volume of Distribution Net	work		
Dose Volume			
6a. Pump Selection:			
Diameter of Delivery Pipe	Length of De	elivery Pipe	
Friction Loss in Delivery Pipe, Hf, f	t		
Elevation of Dosing Tank Low Wat			
Elevation of Lateral Invert			
Elevation Head, He, ft			
Total Operating Head, Ht (Hp + Hf			
Pump Model _ Rated Horsepower _			
Pump Discharge Rate at Total Oper	ating Head, gpm		
6b. Siphon Elevation:			
Diameter of Delivery Pipe	Length of Deliver	v Pine	
Friction Loss in Delivery Pipe, Hf, f			
Velocity Head, Hv, ft			
Total Operating Head, Ht (Hp + Hf			
Elevation of Lateral Invert			
Elevation of Lateral Invert			
Elevation of Siphon invert			
I hereby certify that the information	furnished on Form 4 of	of this application (	(and attachments thereto) is
true and accurate. I am aware that fa			
(N.J.S.A. 58:10A-1 et seq.) and is su			
Signature of Professional Enginee			Data